Claims

- 1. (Currently amended) A therapeutic agent carrier, comprising:
 - a. a reversible geling copolymer, having a linear random copolymer of:
 - i. an N-alkyl substituted [meth-]acrylamide derivitive; and
- ii. a hydrophilic comonomer, wherein an amount of said hydrophilic comonomer in the linear random copolymer is less than about 10 mole % and greater than or equal to about 1 mole % wherein gelation occurs upon heating and with substantially no synerisis, said linear random copolymer in the form of a plurality of linear chains having a plurality of molecular weights greater than or equal to a minimum geling molecular weight cutoff, and excluding a substantial amount of copolymer chains or polymer chains having molecular weights less than the minimum geling molecular weight cutoff;
- b. an aqueous solvent mixed with said reversible geling copolymer as a reversible geling solution; and
- c. a therapeutic agent mixed with said reversible geling solution as said therapeutic agent carrier; wherein the therapeutic agent is not insulin or glucose.
- 2. (Original) The therapeutic agent carrier as recited in claim 1, wherein said amount is from about 1.6 mole % to about 2 mole %.
- 3. (Currently amended) The therapeutic agent carrier as recited in claim 1, wherein said N-alkyl substituted [meth-]acrylamide is selected from the group consisting of N-isopropyl [meth-]acrylamide, N,N-diethyl [meth-]acrylamide, N-[meth-]acrylamide, {N-ethyl[meth-]acrylamide, and combinations thereof.
- 4. (Original) The therapeutic agent carrier as recited in claim 1, wherein said hydrophilic comonomer is hydrophilic [meth-]acryl- compound.
- 5. (Original) The therapeutic agent carrier as recited in claim 4, wherein said hydrophilic [meth-]acryl- compound is selected from the group consisting of carboxylic acid, [meth-]acrylamide, hydrophilic [meth-]acrylic acid ester, hydrophilic [meth-]acrylamide derivatives and combinations thereof.

